

X-RAY LOCALIZER LIGHT SYSTEM

Abstract of Disclosure

An X-ray localizer light system comprises: a long life X-ray localizer light source; an optical concentrator, the light source being situated at a first focal spot, the optical concentrator being configured for concentrating X-ray localizer light from the light source to a second focal spot; and an opaque shield having an aperture therein situated proximate to the second focal spot and being of such a geometrical shape so as to maximize light throughput while meeting light field edge contrast requirements. In another light system, the optical concentrator comprises a reflector comprising a quasi-ellipsoidal portion within which the light source is situated, a cylindrical portion situated between the quasi-ellipsoidal portion and the shield for reflecting stray light, a back reflector portion situated proximate to the shield, and a centrally-mounted portion situated between the aperture and the light source for directing back-reflected light in the direction of the aperture.

Figures

0007	0008	0009	0010	0011	0012
0013	0014	0015	0016	0017	0018
0019	0020	0021	0022	0023	0024
0025	0026	0027	0028	0029	0030
0031	0032	0033	0034	0035	0036
0037	0038	0039	0040	0041	0042
0043	0044	0045	0046	0047	0048
0049	0050	0051	0052	0053	0054
0055	0056	0057	0058	0059	0060
0061	0062	0063	0064	0065	0066
0067	0068	0069	0070	0071	0072
0073	0074	0075	0076	0077	0078
0079	0080	0081	0082	0083	0084
0085	0086	0087	0088	0089	0090
0091	0092	0093	0094	0095	0096
0097	0098	0099	0100	0101	0102
0103	0104	0105	0106	0107	0108
0109	0110	0111	0112	0113	0114
0115	0116	0117	0118	0119	0120
0121	0122	0123	0124	0125	0126
0127	0128	0129	0130	0131	0132
0133	0134	0135	0136	0137	0138
0139	0140	0141	0142	0143	0144
0145	0146	0147	0148	0149	0150
0151	0152	0153	0154	0155	0156
0157	0158	0159	0160	0161	0162
0163	0164	0165	0166	0167	0168
0169	0170	0171	0172	0173	0174
0175	0176	0177	0178	0179	0180
0181	0182	0183	0184	0185	0186
0187	0188	0189	0190	0191	0192
0193	0194	0195	0196	0197	0198
0199	0200	0201	0202	0203	0204
0205	0206	0207	0208	0209	0210
0211	0212	0213	0214	0215	0216
0217	0218	0219	0220	0221	0222
0223	0224	0225	0226	0227	0228
0229	0230	0231	0232	0233	0234
0235	0236	0237	0238	0239	0240
0241	0242	0243	0244	0245	0246
0247	0248	0249	0250	0251	0252
0253	0254	0255	0256	0257	0258
0259	0260	0261	0262	0263	0264
0265	0266	0267	0268	0269	0270
0271	0272	0273	0274	0275	0276
0277	0278	0279	0280	0281	0282
0283	0284	0285	0286	0287	0288
0289	0290	0291	0292	0293	0294
0295	0296	0297	0298	0299	0300
0301	0302	0303	0304	0305	0306
0307	0308	0309	0310	0311	0312
0313	0314	0315	0316	0317	0318
0319	0320	0321	0322	0323	0324
0325	0326	0327	0328	0329	0330
0331	0332	0333	0334	0335	0336
0337	0338	0339	0340	0341	0342
0343	0344	0345	0346	0347	0348
0349	0350	0351	0352	0353	0354
0355	0356	0357	0358	0359	0360
0361	0362	0363	0364	0365	0366
0367	0368	0369	0370	0371	0372
0373	0374	0375	0376	0377	0378
0379	0380	0381	0382	0383	0384
0385	0386	0387	0388	0389	0390
0391	0392	0393	0394	0395	0396
0397	0398	0399	0400	0401	0402
0403	0404	0405	0406	0407	0408
0409	0410	0411	0412	0413	0414
0415	0416	0417	0418	0419	0420
0421	0422				